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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/964,412

DATE: 10/18/2001 TIME: 09:43:56

Input Set : A:\ES.txt

SEQUENCE LISTING

Output Set: N:\CRF3\10182001\I964412.raw

## ENTERED

## (1) GENERAL INFORMATION: (i) APPLICANT: de la Monte, Suzanne 7 Wands, Jack R. 9 (ii) TITLE OF INVENTION: Transgenic Animals and Cell Lines for 10 Screening Drugs Effective for the Treatment or Prevention 11 of Alzheimer's Disease 13 (iii) NUMBER OF SEQUENCES: 14 15 (iv) CORRESPONDENCE ADDRESS: 16 (A) ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C. 17 (B) STREET: 1100 New York Ave., Suite 600 18 (C) CITY: Washington 19 (D) STATE: DC 20 (E) COUNTRY: USA (F) ZIP: 20005-3934 21 23 (V) COMPUTER READABLE FORM: 24 (A) MEDIUM TYPE: Floppy disk 25 (B) COMPUTER: IBM PC compatible 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 29 (vi) CURRENT APPLICATION DATA: C--> 30 (A) APPLICATION NUMBER: US/09/964,412 C--> 31 (B) FILING DATE: 28-Sep-2001. 32 (C) CLASSIFICATION: 34 (viii) ATTORNEY/AGENT INFORMATION: 35 (A) NAME: Esmond, Robert W. (B) REGISTRATION NUMBER: 32,893 36 37 (C) REFERENCE/DOCKET NUMBER: 0609.4370000 39 (ix) TELECOMMUNICATION INFORMATION: 40 (A) TELEPHONE: 202-371-2600 41 (B) TELEFAX: 202-371-2540 44 (2) INFORMATION FOR SEQ ID NO: 1: 46 (i) SEQUENCE CHARACTERISTICS: 47 (A) LENGTH: 1442 base pairs 48 (B) TYPE: nucleic acid 49 (C) STRANDEDNESS: double 50 (D) TOPOLOGY: both 52 (ii) MOLECULE TYPE: cDNA 55 (ix) FEATURE: 56 (A) NAME/KEY: CDS 57 (B) LOCATION: 15..1139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: 63 TTTTTTTTT TGAG ATG GAG TTT TCG CTC TTG TTG CCC AGG CTG GAG TGC 50 64 Met Glu Phe Ser Leu Leu Leu Pro Arg Leu Glu Cys 65 10 67 AAT GGC GCA ATC TCA GCT CAC CGC AAC CTC CGC CTC CCG GGT TCA AGC 98

68 Asn Gly Ala Ile Ser Ala His Arg Asn Leu Arg Leu Pro Gly Ser Ser



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69			15					20					25				
	GAT	TCT		GCC	TCA	GCC	TCC	CCA	GTA	GCT	GGG	ATT	ACA	GGC	ATG	TGC	146
	Asp																
73	-	30					35					40					•
	ACC																194
76	Thr	His	Ala	Arg	Leu	Ile	Leu	Tyr	Phe	Phe	Leu	Val	Glu	Met	Glu	Phe	
	45					50					55					60	
	CTC																242
80	Leu	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Pro	Thr	Ser	Asp		Pro	
81					65					70					75		
	TCC																290
84	Ser	Val	Ser		Ser	Gln	Ser	Ala		Tyr	Arg	Thr	Gly		His	Ala	
85				80					85					90			222
	CGG																338
	Arg	Leu		Leu	Ala	Asn			GTA	Arg	Asn	Arg		Ser	Leu	мет	
89			95					100		a. a	maa		105	ama	100	OTH C	206
	TGC																386
	Cys		Ser	Trp	ser	Pro		Leu	гĀ2	GIN	ser		Cys	ьeu	ser	теп	
93		110	таа	таа	a a m	ma a	115	acm.	CON	ccc	CIEC	120	ccc	Cmm	பாரா	א מיניתי	434
	CCA																434
	Pro	ьуѕ	Cys	ттр	ASP	130	Arg	Arg	Ата	Ата	135	PIO	СТУ	Leu	Pile	140	
	125 TTA	m m m	mmm	mm x	<b>7</b> C 7		N.C.C	መረመ	ccc	λСΨ		አርር	CAG	САТ	CAA		482
																ı Val	402
10		u Piii	s Pile	= nec	145		, ara	Суз	, , , ,	150		1 1111	. 011		15		
		2 TG(	2 ጥረባ	ኮ ርልባ			י ጥሮል	СТС	· CAG			א ארי	י ככי	r GAG		AAG	530
																E Lys	
10			y cy.	160		, 501	. 001	шее	165		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			170		1-	
		r cc'	r ccr			GCC	TCC	CAA			r GG0	G AC	C AA			G CAC	578
																t His	
10			17:					180			-	-	185				
		C TA	CAC	C TGG	CTA	ATI	r TTT	' ATI	TTI	TA T	r TT:	r AA	r TTI	r TT	G AG	A CAG	626.
																g Gln	
11		19		-			195					200					
11	5 AG	T CT	CAAC	C TCI	GTC	ACC	CAG	GC3	GG	A GTO	G CA	G TG	G CGC	CAA	r cr	r GGC	674
11	6 Se	r Le	u Ası	n Sei	· Val	. Thi	r Gln	Ala	Gly	y Val	l Glı	a Trj	o Ar	j Ası	n Lei	ı Gly	
11	9 20	5				210	)				21	5				220	
12	1 TC	A CT	G CA	A CCI	CTG	CC?	r ccc	GGG	TTC	CAAC	G TT	A TT	C TCC	C TG	C CC	CAGC	722
12	2 Se															o Ser	
12																	
																r TTT	770
12	6 Le	u Le	u Se:	r Sei	rr	Asp	y Tyr	Arg			o Pro	o Ar	g Lei	ı Ala	a As	n Phe	
12				240			•		245					25			
																G ATC	818
		e Va			ı Val	L Glu	ı Met			e Thi	r Me	t Phe			g Le	u Ile	•
13			25					260					265				200
																r GCT	866
				r Gly	Pro	Суз			ı Pro	o Ala	a Se			r Gl	n Se	r Ala	
13	5	27	0				275	ì				280	IJ				



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															TTT		914
	_	ITE	Thr	GLY	vaı		His	His	Ala	Arg		He	Phe	Asn	Phe	_	
_	285		~~~		<i>a</i>	290	a. a	m.a.m	a.m.m.		295	~~=	~~~	a=a		300	0.50
															CAA		962
	Leu	Pne	GIU	мет		ser	HlS	Ser	vaı		GIn	Ата	GTA	Val	Gln	Trp	
143			ama		305	a.m.a	~		~= ~	310					315		1010
															CGA		1010
	Pro	ASN	ьeu	_	ser	ьeu	GIN	Pro		Pro	Pro	GIA	Leu	_	Arg	Pne	
147	таа	mam.	ата	320	ama.	<i>aa</i> ,	3.00	3.00	325	a		000	a. a	330	223	221	2050
															CCA		1058
	ser	Cys		ser	Leu	Pro	ser		тгр	ASP	Tyr	GIY		Leu	Pro	Pro	
151	a a a	000	335	73 73 fm	mmm	mam	3 mm	340	3 mm	202	000	000	345	maa	003	m 3 m	1106
															CCA		1106
155	HIS	350	нта	ASII	Pile	Cys	355	Pile	тте	AIG	СТУ	_	Val	ser	Pro	TYL	
	mmc		ccc	mcc	mem	~ A A		CCIII	CAC	OM O	3.00	360	7007	30m /	c c c c m/	CAGCCT	1150
												TGA	JUCA	LCT (	GCCT	CAGCCT	1159
	Leu 365	ser	СТУ	ттр	ser	370	THE	PIO	ASP	ьeu	375						
		8	חכם ו	nccc:	a mma a		CCT/	77.000	7 700	משכים ל		0000	acom:	ו חוד א	mm » 🔿	A 171 A A A A	1210
																ATAAAA IGGCTT	1219 1279
																GTTACA	
																TCAGTA	1339 1399
	GTA												AACC.	IGC A	HAA1.	ICAGIA	1442
										3011.	IAGA	GCA				•	1442
172 (2) INFORMATION FOR SEQ ID NO: 2: 174 (i) SEQUENCE CHARACTERISTICS:																	
174 (i) SEQUENCE CHARACTERISTICS: 175 (A) LENGTH: 375 amino acids																	
178			•	3) TY					uc10								
179				) T(													
181		(ii)															
183							-	ON: S	SEO T	א מז	): 2:	•					
	Met												Asn	Glv	Ala	Ile	
186	1				5				5	10		-1-		U-1	15		
	Ser	Ala	His	Arg	Asn	Leu	Arg	Leu	Pro		Ser	Ser	Asp	Ser	Pro	Ala	
189				20			J		25	1				30			
	Ser	Ala	Ser	Pro	Val	Ala	Glv	Ile	Thr	Glv	Met	Cvs	Thr	His	Ala	Arg	
192			35	_			4	40		1		-1-	45			J ,	
	Leu	Ile		Tyr	Phe	Phe	Leu		Glu	Met	Glu	Phe		His	Val	Glv	
195		50		1			55					60				1	
	Gln		Gly	Leu	Glu	Leu	Pro	Thr	Ser	Asp	Asp		Ser	Val	Ser	Ala	
198	65		•			70				•	75					80	
	Ser	Gln	Ser	Ala	Arq	Tyr	Arg	Thr	Gly	His	His	Ala	Arg	Leu	Cys	Leu	
201					85	-	_		-	90					95		
	Ala	Asn	Phe	Cys	Gly	Arg	Asn	Arg	Val	Ser	Leu	Met	Cys	Pro	Ser	Trp	
204				100	_	-		-	105				-	110		-	
	Ser	Pro	Glu	Leu	Lys	Gln	Ser	Thr	Cys	Leu	Ser	Leu	Pro	Lys	Cys	Trp	
207			115		_			120	_				125	-	-	-	
209	Asp	Tyr	Arg	Arg	Ala	Ala	Val	Pro	Gly	Leu	Phe	Ile	Leu	Phe	Phe	Leu	
210	_	130	-	_			135		_			140					
212	Arg	His	Arg	Cys	Pro	Thr	Leu	Thr	Gln	Asp	Glu	Val	Gln	Trp	Cys	Asp	



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213	145					150					155					160	
	His	Ser	Ser	Leu	Gln		Ser	Thr	Pro	Glu			His	Pro	Pro		
216					165					170		-1-			175		
218	Ser	Ala	Ser	Gln	Val	Ala	Gly	Thr	Lvs	Asp	Met	His	His	Tvr	Thr	Trp	
219				180			-		185					190		-	
221	Leu	Ile	Phe	Ile	Phe	Ile	Phe	Asn	Phe	Leu	Arg	Gln	Ser	Leu	Asn	Ser	
222			195					200					205				
224	Val	Thr	Gln	Ala	Gly	Val	Gln	Trp	Arg	Asn	Leu	Gly	Ser	Leu	Gln	Pro	
225		210			_		215	_	_			220					
227	Leu	Pro	Pro	Gly	Phe	Lys	Leu	Phe	Ser	Cys	Pro	Ser	Leu	Leu	Ser	Ser	
228	225					230					235					240	
230	Trp	Asp	Tyr	Arg	Arg	Pro	Pro	Arg	Leu	Ala	Asn	Phe	Phe	Val	Phe	Leu	
231					245					250					255		
233	Val	$\operatorname{Glu}$	Met	Gly	Phe	Thr	Met	Phe	Ala	Arg	Leu	Ile	Leu	Ile	Ser	Gly	
234				260					265					270			
237	Pro	Cys	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	
238			275					280					285				
240	Val	Ser	His	His	Ala	Arg	Leu	Ile	Phe	Asn	Phe	Cys	Leu	Phe	Glu	Met	
241		290					295					300					
243	Glu	Ser	His	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln	Trp	Pro	Asn	Leu	Gly	
244	305					310					315					320	
246	Ser	Leu	Gln	Pro	Leu	Pro	Pro	Gly	Leu	Lys	Arg	Phe	Ser	Cys	Leu	Ser	
247					325					330					335		
	Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Gly	His	Leu	Pro	${\tt Pro}$	His	Pro	Ala	Asn	
250				340					345					350			
	Phe	Cys		Phe	Ile	Arg	Gly	Gly	Val	Ser	Pro	Tyr	Leu	Ser	Gly	Trp	
253			355					360					365				
	Ser	Gln	Thr	Pro	Asp	Leu	Arg										
256		370					375										
258	(2)																
260		(i)					CTERI										
261			-	-			381 b		_	rs							
262							leic									•	
263							ESS:		ole	-		•		,			
264			•	•			both										
271							PTIC										
																GCAAT	60
																TCCCC	120
																TAGTA	180
																TGATC	240
																GCCTC	300
																STCTCC	360
																CAGCC	420
																CAGGAT	480
																CAATCC	540
																TAATT	600
																SAGTGC	660
490	MGTG	90000	AA I	CITU	GCTC	A CI	.GCAA	CCTC	. 1GC	LICC	JUGG	GITC	AAGI	L A I	TCTC	CTGCC	720





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298	CCAGCCTCCT GAGTAGCTG	G GACTACAGGC	GCCCACCACG	CCTAGCTAAT	TTTTTTGTAT	780
300	TTTTAGTAGA GATGGGGTT	F CACCATGTTC	GCCAGGTTGA	TCTTGATCTC	TTGACCTTGT	840
302	GATCTGCCTG CCTCGGCCT.	A CCCAAAGTGC	TGGGATTACA	GGTCGTGACT	CCACGCCGGC	900
304	CTATTTTAA TTTTTGTTT	G TTTGAAATGG	AATCTCACTC	TGTTACCCAG	GTCGGAGTGC	960
306	AATGGCAAAT CTCGGCTAC	r cgcaacctct	GCCTCCCGGG	TCAAGCGATT	CTCCTGTCTC	1020
308	AGCCTCCCAA GCAGCTGGG	A TTACGGGACC	TGCACCACAC	CCCGCTAATT	TTTGTATTTT	1080
310	CATTAGAGGC GGGTTTACC	A TATTTGTCAG	GCTGGGTCTC	AAACTCCTGA	CCTCAGGTGA	1140
312	CCCACCTGCC TCAGCCTTC	C AAAGTGCTGG	GATTACAGGC	GTGAGCCACC	TCACCCAGCC	1200
314	GGCTAATTTG GAATAAAAA	A TATGTAGCAA	TGGGGGTCTG	CTATGTTGCC	CAGGCTGGTC	1260
316	TCAAACTTCT GGCTTCAGT	C AATCCTTCCA	AATGAGCCAC	AACACCCAGC	CAGTCACATT	1320
318	TTTTAAACAG TTACATCTT	r attttagtat	ACTAGAAAGT	AATACAATAA	ACATGTCAAA	. 1380
320	С					1381
322	(2) INFORMATION FOR	SEQ ID NO: 4	:			
324	(i) SEQUENCE CH	ARACTERISTIC	S:			
325	(A) LENGTH	: 1418 base	pairs			
326		nucleic acid	-		•	
327		EDNESS: both				
328	• •					
330	(ii) MOLECULE TY					
335	(xi) SEQUENCE DE	SCRIPTION: S	EQ ID NO: 4	:		
337	TTTTTTTTT GAGATGGAG	TTTCGCTCTT	GTTGCCCAGG	CTGGAGTGCA	ATGGCGCAAT	60
339	CTCAGCTCAC CGCAACCTC	C GCCTCCCGGG	TTCAAGCGAT	TCTCCTGCCT	CAGCCTCCCC	120
341	AGTAGGCTGG GATTACAGG	CATGTGCACCA	CGCTCGGCTA	ATTTTGTATT	TTTTTTTAGT	180
	AGAGATGGAG TTTCTCCAT					240
345	CCCGTCTCGG CCTCCCAAA	G TGCTAGATAC	AGGACTGAGC	ACCATGCCCG	GCCTCTGCCT	300
	GGCTAATTTT TGTGGTAGA					360
	CAAGCAGTCC ACCTGCCTC					420
	TGGCCTTTTT ATTTTATTT					480
	GCAGTGGTGT GATCACAGC	•				540
	TCAGCCTCCC AAAGTAGCT					600
	TTTTATTTTT AATTTTTTG					660
	GCGCAATCTT GGCTCACTG					720
	CCTCCTGAGT AGCTGGGAC					780
	AGTAGAGATG GGGTTTCAC					840
	CTGCCTGCCT CGGCCTCCC					900
	TATTTTAAT TTTTGTTTG					960
	ATGGCCAAAT CTCGGCTCA					1020
	CAGCCTCCCA AGCAGCTGG					1080
	TTCATTAGAG GCGGGGTTT					1140
	TGACCCACCT GCCTCAGCC					1200
	CGGCTAATTT AGATAAAAA					1260
	GTCTCAAACT TCTGGCTTC					1320
	ATTTTTAAAC AGTTACATC					1380
	AACCTGCAAA TTCGAGTAG					1418
	(2) INFORMATION FOR					
389	(i) SEQUENCE CHA					
390		22 base pa				
391		nucleic acid				
392		EDNESS: sing	le	•		
	, ,	- 3				



VERIFICATION SUMMARY

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L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]